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ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
AN
     2000:15291 CAPLUS
DN
     132:79807
     Entered STN: 07 Jan 2000
ED
     Crosslinkable silicone composition useful for coating and/or impregnating
ТT
     to produce water and/or oil repellency with low surface energy
     Mignani, Gerard; Olier, Philippe; Priou, Christian
IN
PA
     Rhodia Chimie, Fr.
SO
     PCT Int. Appl., 44 pp.
     CODEN: PIXXD2
DT
     Patent
LΑ
     French
IC
     ICM C09D183-08
     ICS D06M015-657
CC
     42-10 (Coatings, Inks, and Related Products)
     Section cross-reference(s): 40
FAN.CNT 1
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                       KIND
                               DATE
                                          APPLICATION NO. DATE
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     WO 2000000559
                                20000106 WO 1999-FR1516 19990624 <--
                        A1
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             DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS,
             JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK,
             MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ,
             TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ,
             MD, RU, TJ, TM
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     FR 2780407
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                                19991231
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                                                                   19980630
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                        AA
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                                         CA 1999-2335926
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     AU 9942714
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     EP 1093497
                                20010425
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     BR 9912505
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                                20010502 BR 1999-12505 19990624
     TR 200100347
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                                          JP 2000-557314
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PRAI FR 1998-8485
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                               19990624
CLASS
 PATENT NO.
               CLASS PATENT FAMILY CLASSIFICATION CODES
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 WO 2000000559 ICM
                        C09D183-08
                ICS
                        D06M015-657
WO 2000000559
                ECLA
                        C09D183/08+B4S; C09K003/18; D06M015/657
 FR 2780407
                ECLA
                        D06M015/657 .
     A perfluorinated silicone composition provides an antifouling coating and/or
     impregnant with improved adhesion to substrates and with increased service
     life. The composition comprises: (A) a perfluorinated polysiloxane bearing
     \geq 1 grafted chain (CH2)mCR(CO2Q1)(CR2)nCO2Q2 [Q1, Q2 = (CF2)qF,
     (CF2)qH; each R = H, C1-6 alkyl; m = 1-10; n = 0-4; q \ge 1] and
     ≥1 crosslinking function, (B) a crosslinking agent (e.g.,
     tetramethyldivinyldisiloxane) bearing ≥2 groups capable of reacting
     with the crosslinking functions of A, optionally (C) a catalyst for
     reaction of A with B, and optionally (D) one or several functional
     additives. The crosslinking typically involves reaction of Si-bonded H
     with vinyl groups or of carboxy groups with oxazolines. The composition
     provides waterproofing, antifouling, and/or stain-repelling coatings for
     various substrates such as textiles.
ST
     fluoro siloxane coating low surface energy; water repellent coating fluoro
     siloxane; stain repellent coating fluoro siloxane; oil repellent coating
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الاستلام تو

DC

A26 A87 E11 F06 G02

fluoro siloxane IT Coating materials (antifouling; crosslinkable silicone composition for coating and/or impregnating to produce water and/or oil repellency with low surface energy) ΙT Polysiloxanes, uses Polysiloxanes, uses RL: TEM (Technical or engineered material use); USES (Uses) (fluorine-containing, reaction products with unsatd. fluorinated diesters; crosslinkable silicone composition for coating and/or impregnating to produce water and/or oil repellency with low surface energy) IT Coating materials (oil- and water-resistant; crosslinkable silicone composition for coating and/or impregnating to produce water and/or oil repellency with low surface energy) Fluoropolymers, uses IΤ Fluoropolymers, uses RL: TEM (Technical or engineered material use); USES (Uses) (polysiloxane-, reaction products with unsatd. fluorinated diesters; crosslinkable silicone composition for coating and/or impregnating to produce water and/or oil repellency with low surface energy) 111-66-0D, 1-Octene, reaction products with fluoro hydro polysiloxanes 24338-09-8D, Trimethylsilyl 10-undecenoate, reaction products with fluoro hydro polysiloxanes, deprotected 253787-64-3D, reaction products with fluoro hydro polysiloxanes 253787-65-4D, reaction products with fluoro hydro polysiloxanes RL: TEM (Technical or engineered material use); USES (Uses) (crosslinkable silicone composition for coating and/or impregnating to produce water and/or oil repellency with low surface energy) 2627-95-4, 1,1,3,3-Tetramethyl-1,3-divinyldisiloxane 2,2'-Tetramethylenebis(2-oxazoline) RL: MOA (Modifier or additive use); RCT (Reactant); RACT (Reactant or reagent); USES (Uses) (crosslinking agent; crosslinkable silicone composition for coating and/or impregnating to produce water and/or oil repellency with low surface energy) TΥ 28652-54-2, Ethynylcyclohexanol RL: MOA (Modifier or additive use); USES (Uses) (crosslinking inhibitor; crosslinkable silicone composition for coating and/or impregnating to produce water and/or oil repellency with low surface energy) THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD RE.CNT RE (1) Andrews, A; US 4826921 A 1989 CAPLUS (2) Dow Corning Toray Silicone; EP 0472215 A 1992 CAPLUS (3) Dow Corning Toray Silicone; EP 0567970 A 1993 CAPLUS (4) Nippon Paint Co Ltd; EP 0376293 A 1990 CAPLUS (5) Nippon Paint Co Ltd; EP 0414962 A 1991 CAPLUS (6) Rhone Poulenc Chimie; FR 2737215 A 1997 CAPLUS (7) Shinetsu Chemical Co; EP 0393984 A 1990 CAPLUS RN 111-66-0D RN24338-09-8D RN253787-64-3D RN 253787-65-4D RN 2627-95-4 RN 36931-59-6 RN 28652-54-2 L37 ANSWER 2 OF 2 WPIX COPYRIGHT 2005 THE THOMSON CORP on STN AN 2000-126782 [11] WPIX DNC C2000-038701 TI Perfluorinated silicone composition for low surface energy coatings.

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MIGNANI, G; OLIER, P; PRIOU, C
IN
PΑ
     (RHOD) RHODIA CHIM
CYC 87
PΙ
     WO 200000559
                     A1 20000106 (200011)* FR
                                                 44
                                                       C09D183-08
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         W: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB
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            LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR
            TT UA UG US UZ VN YU ZA ZW
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                     A1 19991231 (200011)
                                                       C08L083-04
     AU 9942714
                     A 20000117 (200026)
                                                       C09D183-08
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                     A1 20010425 (200124)
                                           FR
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         R: AT BE CH DE DK ES FI FR GB GR IE IT LI NL PT SE
     BR 9912505
                     A 20010502 (200129)
                                                       C09D183-08
     CN 1310749
                     A 20010829 (200176)
                                                       C09D183-08
     JP 2002519470
                     W 20020702 (200246)
                                                 48
                                                       C08L083-08
ADT WO 2000000559 A1 WO 1999-FR1516 19990624; FR 2780407 A1 FR 1998-8485
     19980630; AU 9942714 A AU 1999-42714 19990624; EP 1093497 A1 EP
     1999-957640 19990624, WO 1999-FR1516 19990624; BR 9912505 A BR 1999-12505
     19990624, WO:1999-FR1516 19990624; CN 1310749 A CN 1999-808999 19990624;
     JP 2002519470 W WO 1999-FR1516 19990624, JP 2000-557314 19990624
    AU 9942714 A Based on WO 2000000559; EP 1093497 A1 Based on WO 2000000559;
     BR 9912505 A Based on WO 2000000559; JP 2002519470 W Based on WO
     2000000559
PRAI FR 1998-8485
                          19980630
     ICM C08L083-04; C08L083-08; C09D183-08
     ICS C08G077-24; C08G077-385; C09D005-16; C09D183-04; D06M015-657
ICA C09K003-18; C10M107-50
AB
     WO 200000559 A UPAB: 20000301
     NOVELTY - Crosslinkable silicone composition is used to make water- and/or
     oil-repellent coatings with low surface energy.
          DETAILED DESCRIPTION - Crosslinkable silicone composition used to
     make water- and/or oil-repellent coatings with low surface energy
     comprises: at least a perfluorinated POS, A; at least a crosslinking
     agent, B, perfluorinated or not, and capable of reacting with A; optional
     catalyst, C, for the reaction(s) between A and B; and, optionally, one or
     more functional additives, D; in which each molecule of A has one or more
     perfluorinated grafts, Gf, of formula (I) -(CH2)m-CR1(COORf2)((CR12-)n-CR1)
     COORf1)
               (I)
          R1 = H \text{ or } 1 - 6 \text{ C alkyl};
          Rf1 and Rf2 = perhalogenated, preferably perfluorinated radicals and
     most preferably -CqF2q-CF3 where q at least 0 (II) or CqF2q-H where q at
     least 1 (III);
     m = 1 - 10;
     n = 0 - 4;
          and one or more crosslinking functions, Fra; and each molecule of B
    has at least 2 crosslinking functions, Frb, which can react with Fra.
          INDEPENDENT CLAIMS are also included for a POS constituent of said
     composition; and method for making coatings using said composition.
          USE - In making low surface energy water- and/or oil-repellent
     coatings or impregnations (claimed).
          ADVANTAGE - Coatings have improved adherence and longer life span.
    Dwg.0/0
FS
FΑ
MC
     CPI: A08-C01; A08-D01; A09-A08; A10-E; A12-B01C; E05-E02B; F03-C02;
          F03-C02A; G02-A05
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